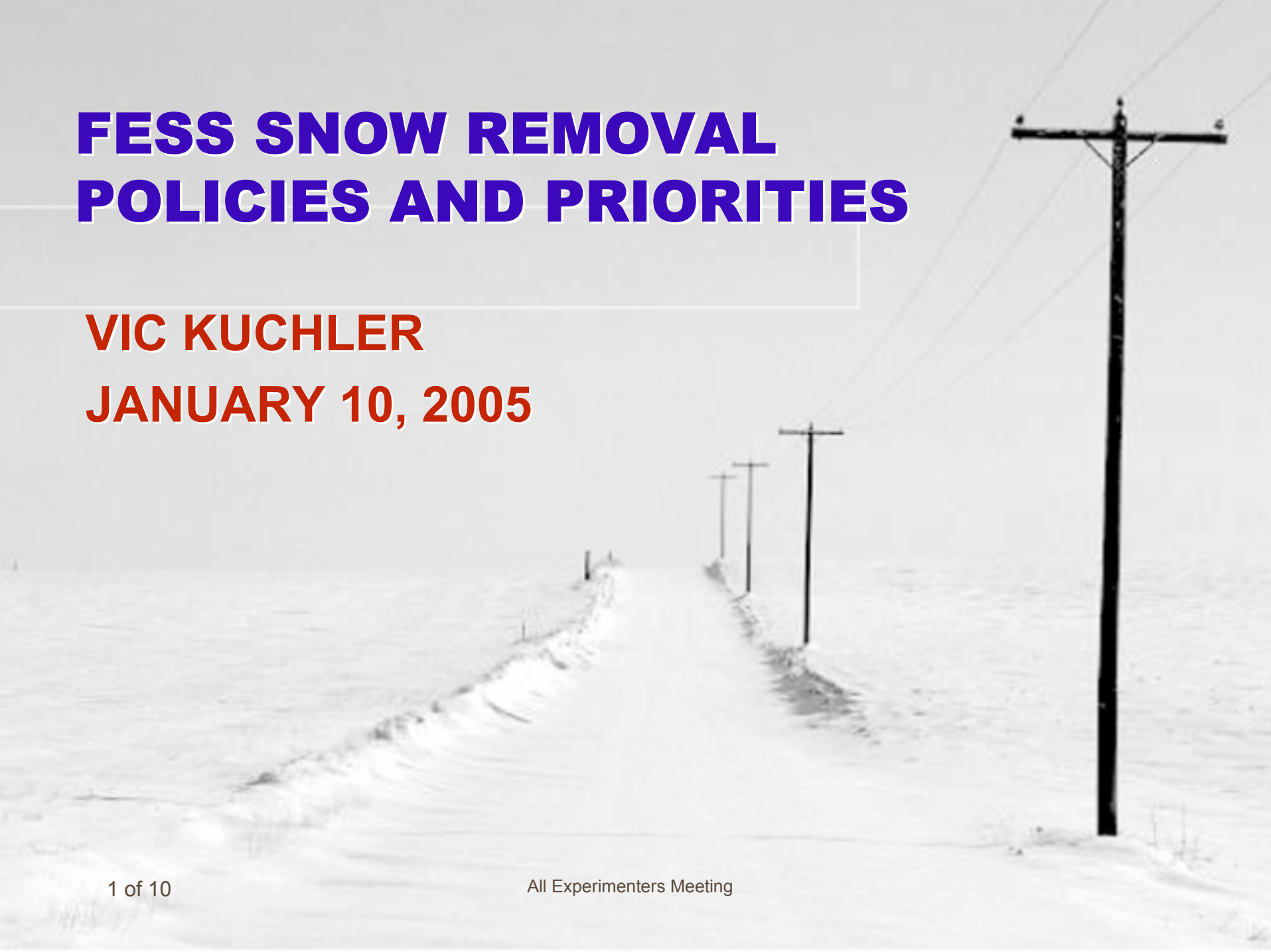


# **FESS SNOW REMOVAL POLICIES AND PRIORITIES**

**VIC KUCHLER**

**JANUARY 10, 2005**



# **FESS SNOW REMOVAL POLICIES AND PRIORITIES**

## **OVERVIEW OF SCOPE**

- **Fermilab Consists of 6,800 Acres of Land**
- **32.5 Miles of Paved Roads (65 Paved Lane Miles)**
- **5.3 Miles of Gravel Roads**
- **350 Buildings On-Site**
- **230 Buildings Have Driveways and/or Parking Lots**

# **FESS SNOW REMOVAL POLICIES AND PRIORITIES**

## **AVAILABLE RESOURCES**

- 16 FTE's with 4 On-Calls Available
- 8 Pick-up Trucks w/Plows
- 6 Front End Loaders
- 3 1-Ton Dump Trucks w/Plows
- 4 5-Ton Dump Trucks w/Plows & Salt Spreaders
- 900 Tons of Rock Salt
- 4500 Gal. Salt Additive (650 Tons of Rock Salt)
- 4000 Lb. (50 Lb. Bags) of Magnesium Chloride

# **FESS SNOW REMOVAL POLICIES AND PRIORITIES**

## **THE POLICY**

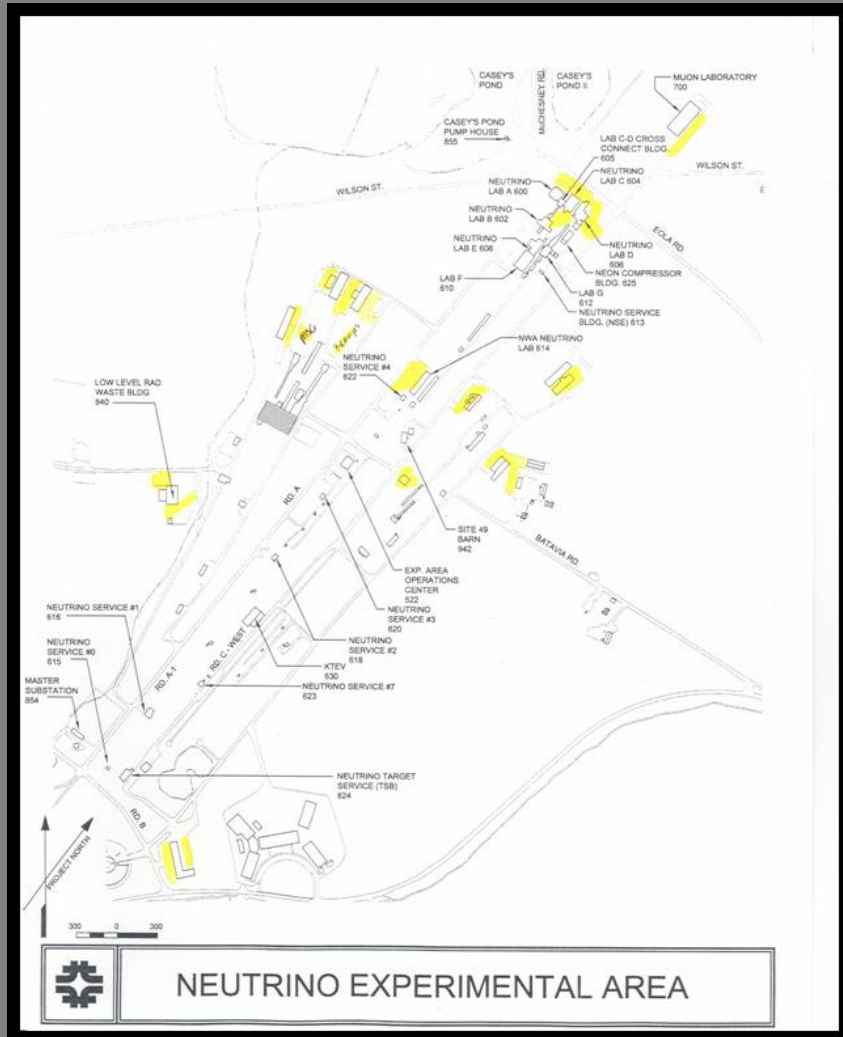
- **In Early October, All Building Managers are Contacted by FESS Roads and Grounds to Update Snow Removal Needs**
- **Agreement is Reached Regarding Building Manager and FESS R&G Responsibility for Initial Snow Removal**
- **Drawings are Updated to Record Responsibilities and Define Limits of Snow Removal and Stockpiling**
- **Snow Crew Meetings are Held in Mid-November to Address Updated Maps and Priorities, Historical Hazards, and Crew Call-Out Policies**

# **FESS SNOW REMOVAL POLICIES AND PRIORITIES**

## **THE PRIORITIES**

- **Through Roadways and Access to Main Operational Buildings Including Wilson Hall, CDF, D0, Industrial Area, FCC, Receiving, etc.**
- **Secondary Roads and the Village Area**
- **Parking Lots (Usually at Night or Early Morning)**
- **Village Driveways (Usually the Next Day)**
- **In All Cases, Equipment and Manpower will be Made Available to Accommodate Emergency Access Required by Main Control Room, Security, etc.**

# FESS SNOW REMOVAL POLICIES AND PRIORITIES

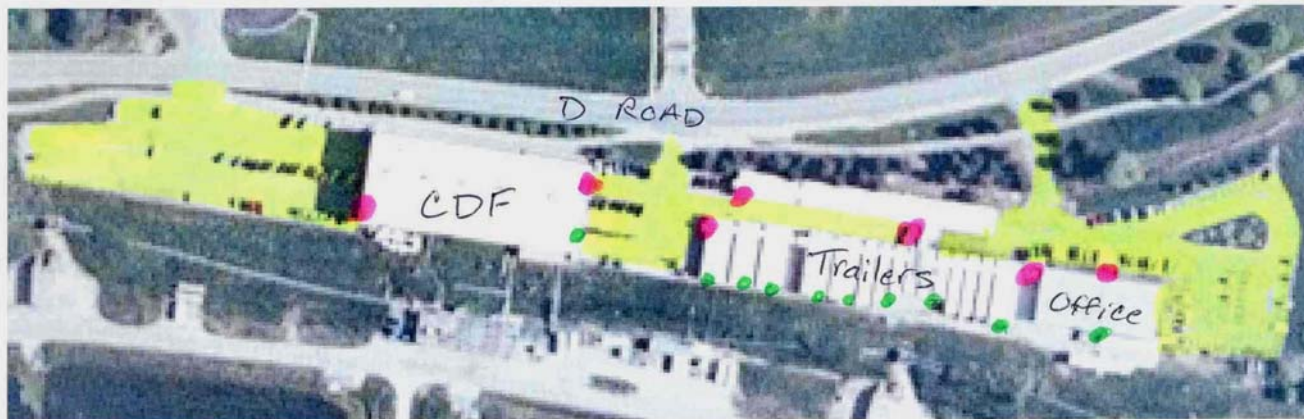


## Meson-Neutrino-Proton Areas

| Meson                                      | Primary | Secondary                                |
|--|---------|--|
| Meson Service Roads                        |         | Meson Service Buildings, MS1-2-3         |
| MW8/MS6 and Double Door to South           |         | ME7 and Trailer                          |
| ME7 Worm North and West                    |         | Meson Cryo Building                      |
| MP9 Front and Back                         |         | Double Doors North of ME7                |
| MW9 Front and Back                         |         | Site 40 Ramp and Clean Up                |
| MAB Front                                  |         | MAB Back Storage                         |
| Site 40 Front Parking and Access to Garage |         | M Center to Blue Trailers                |
|  |         | Meson Detector NW Corner Overhead Door   |
|  |         | MS4 - Detector Building West Side        |
|  |         | Meson Det. SE Parking                    |
|  |         | Cryo Porta Camps                         |
|  |         | Meson Det. Main Lot                      |
| Neutrino                                   | Primary | Secondary                                |
| Operations Center/training Center          |         | G-2 Service building                     |
| NWA and Ramps                              |         | Neutrino Service Buildings NS0.1,2,3,4,7 |
| SiDet North Side/Labs A&C                  |         | All Berm Accesses off A1 Road            |
| SiDet South Side Courtyard/Lab B           |         | Neutrino Berm Road                       |
| Muon Lab                                   |         | Site 49 Barns                            |
| Lab D                                      |         | KTEV South Lot                           |
|  |         | Casey's Pond Pump House                  |
|  |         | KTEV North Lot                           |
|  |         | Labs E and F                             |
|  |         | SiDet Overflow/Wilson                    |
|  |         | Lab G                                    |
| Proton                                     | Primary | Secondary                                |
| PAB  |         | Magnet Storage Side and Back             |
| PAB Pole Building                          |         | PC4                                      |
| Wide Band                                  |         | Target Service Building                  |
| HIL  |         | Ramp to Site 50 Barn/Alley to East       |
| PS5 Front and North Side                   |         | Proton Service Buildings PS1,2,4,6       |
| Magnet Storage Front                       |         | TPL                                      |
|  |         | Site 50 Parking                          |
|  |         | Pagoda PS3                               |
|  |         | HIL Hatch                                |



# FESS SNOW REMOVAL POLICIES AND PRIORITIES



- Primary Entrances
- Primary Parking Areas
- Secondary Entrances

# FESS SNOW REMOVAL POLICIES AND PRIORITIES





# **FESS SNOW REMOVAL POLICIES AND PRIORITIES**

## **IN SUMMARY**

- **Every Snow Fall/Storm is Different**
- **Factors Include Temperature, Time of Onset, Intensity, Wind and Duration and all have an Effect on the Length of the Overall Effort**
- **Storms are Tracked Through the National Weather Service Radar and Posted Watches and Warnings**
- **Crews are Staged and Staggered as Needed to Provide Concerted Response Until the Storm is Over and the Roadways and Parking Lots are Cleared**
- **Follow-up Work is Provided to Assist Building Managers with Secondary and Non-emergency Exits and Walkways**

# **FESS SNOW REMOVAL POLICIES AND PRIORITIES**

## **OTHER INFO**

- **Each Snow Response Requires Planning and Management of Resources**
- **A Response Plan is Generated by the R&G Supervisors for Each Snow Event**
- **Rest Periods for Responders Must be Planned Along with Allowances for Food, Water, Coffee and/or Sleep**
- **During Last Week's Storm, R&G Crews Were Staggered to Provide Continuous Snow Removal Effort for 43 Straight Hours**
- **150 Tons of Treated Rock Salt Was Used During the Last Storm**
- **The Last Snow Storm was Unusually Long in Duration**
- **Icing Conditions are Always More Difficult Than Snow**